

# OWNER'S MANUAL











**NIGHT VISION**

MONOCULAR NIGHT  
VISION VIEWER

**Models 100 / 150 / 160**

# CAUTION

*To ensure safe operation of your monocular viewer, make sure you observe the following CAUTIONS:*

-  *The viewer will not show a difference between colored lights. It produces only a green viewing image. When color differentiation is needed (for example, boat running lights), verify the difference with your unaided eyes.*
  -  *Do not operate your monocular viewer in a potentially explosive environment (for example, the proximity of gasoline fumes or other volatile material). The viewer is an electrical device.*
  -  *Do not use your monocular viewer while under the influence of alcohol or medications that affect your judgment or perception. If you have any questions about medications, consult your physician.*
  -  *Do not use your ITT Night Vision viewer to operate vehicles such as automobiles, aircraft, all-terrain vehicles (ATVs), jet skis, etc.*
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-  *Even though the monocular viewer provides increased capabilities for nighttime activities, do not use your viewer to operate a boat at high speed or in any manner that violates boating laws or customary safe practices.*
  -  *Do not continue to use your ITT Night Vision viewer if for any reason it should fail to function properly. Contact ITT's Technical Support Center (see page 23).*
  -  *Do not disassemble, puncture, recharge, or expose the battery to fire or high temperature — it can explode or cause burns. Keep batteries away from small children.*
  -  *Do not carry batteries in pockets or bags containing coins, keys, etc. You can short circuit a battery and cause it to become very hot. Alkaline batteries can explode when short circuited.*

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# FOREWORD

ITT Night Vision is pleased to introduce you to the monocular night vision viewer. For over 30 years, ITT has earned the reputation as one of the world's leading producers of high-quality night vision equipment for the military. Now, we are able to extend this exciting technology to you.

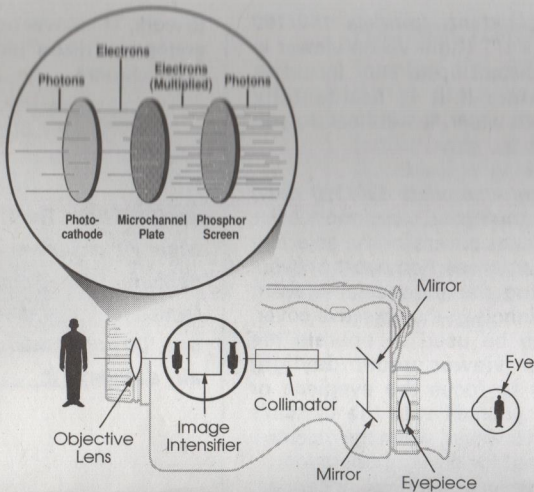
Your ITT Night Vision viewer is the result of extensive research and engineering design coordinated to provide you with a compact, affordable, and extremely easy to use night vision viewer that will enhance your nighttime activities.

The features incorporated in your monocular viewer are offered with the same attention to quality and performance you would expect from ITT.

By bringing you the ability to see at night, we hope your ITT Night Vision viewer brings you many hours of enhanced operational capability. Please take the time to completely familiarize yourself with this Owner's Manual, which describes the proper use of the ITT Night Vision viewer.



# HOW NIGHT VISION WORKS



## PRINCIPLES OF OPERATION

Your ITT Night Vision viewer is a high quality electro-optical system that combines state-of-the-art technology and precision components in a rugged user-friendly viewer. The heart of the system is an image intensifier that receives very minute amounts of light from the moon, stars, and night sky and amplifies them thousands of times. The principle used is called photo-emission which was first discovered by Heinrich Hertz in 1887 and theoretically explained by Albert Einstein in 1905. Photoemission is the release of electrons from a solid material as a result of energy put into the material by radiation and light.

# HOW NIGHT VISION WORKS

In your ITT Night Vision viewer, the objective lens collects light that you cannot see with your naked eye and focuses it on the image intensifier. Inside the image intensifier a photocathode absorbs this light energy and converts it into electrons. These electrons are then drawn toward a phosphor screen but first pass through a microchannel plate that multiplies them thousands of times. When this highly intensified electron image strikes the phosphor screen, it causes the screen to emit light that you can see. Since the phosphor screen emits this light in exactly the same pattern and degrees of intensity as the light

## **NOTE:**

*If your monocular viewer is used on waterways, do not use it as your primary navigational instrument. It is designed to supplement the use of existing equipment.*

that is collected by the objective lens, the bright nighttime image you see in the eyepieces corresponds precisely to the outside scene you are viewing.







By bringing you affordable night vision technology, ITT's monocular viewer provides you with a valuable aid that will improve your ability to see under dark conditions. However, because night vision is not the same as daytime vision, you should be aware of the differences in order to maximize the monocular viewer's usefulness. Be sure you and all other users of your monocular viewer read this manual and become familiar with the characteristics, features, and limitations of night vision.

# TABLE OF CONTENTS

## RANGE PERFORMANCE

The following chart compares the ITT Night Vision viewer's performance to that of your unaided eye under varying nighttime conditions.

How far can I see a 6 foot man?

	FULL MOON  .1 lux	HALF MOON  .001 lux	QUARTER MOON  .0005 lux	STARLIGHT  .0001 lux	OVERCAST  .00001 lux
Unaided Eye	approx 250 yds	approx 150 yds	approx 50 yds	• N/M	• N/M
G2	675 yds	590 yds	530 yds	330 yds	100 yds
G3	800 yds	750 yds	700 yds	500 yds	200 yds

• Not Measurable

## CHARACTERISTICS AND LIMITATIONS OF NIGHT VISION

**Monochromatic Image** – Because the ITT Night Vision viewer produces a monochromatic image, there is no differentiation of colors. In particular, red, white, green, and blue lights will all appear green. Take care to verify differences with unaided vision.

**Color Sensitivity** – The ITT Night Vision viewer is more responsive to red and white lights than green and blue lights. Because of this, distant red and white lights may appear closer than green or blue

**⚠ CAUTION:** *The monocular viewer will not show a difference between red, green, and blue lights (for example, boat running lights). The monocular viewer produces only a green image.*

**⚠ CAUTION:** *Red and white lights may appear to be closer than green or blue lights. Be careful when using artificial lights to navigate or determine distances.*

lights. Be careful when using these lights to determine distances. Periodically verify the distances to these lights with your unaided eyes.

**Extreme Darkness** – Your ITT Night Vision viewer is effective under most nighttime conditions, including overcast starlight, but it is not effective in extremely dark conditions such as a cave or areas with-out any light. Under extremely dark conditions, you will notice pinpoint-size sparkles in the image area. These sparkles are small amounts of energy generated inside the image intensifier that strike the phosphor screen and are an indication that the device is working.



# HOW NIGHT VISION WORKS

There are very few nighttime conditions when your monocular viewer cannot be used. Because it is very sensitive to starlight, the phases and position of the moon, and nearby lights reflected off clouds, familiarize yourself with your monocular viewer under all of these conditions.

**Contrast Reversal** – Your ITT Night Vision viewer detects light that cannot be seen by the human eye. This light is often referred to as near-infrared light. Because the monocular viewer detects this light, the contrast of the image you see will appear different than it would under normal conditions.



## **CAUTION:**

*The ITT Night Vision viewer is sensitive to light not detected by the human eye and to differences in light reflected from various surfaces. Resulting contrast reversals may obscure some objects on the horizon or cause some objects to appear less pronounced against their background than during daylight.*


Objects that normally appear lighter than their surroundings may appear dark against a lighter background.


In addition, the image you see in the monocular viewer is also dependent on the reflective quality of the objects you see in the viewing area. Objects that appear light during the day but have a dull surface may appear darker through the monocular viewer than objects that are dark during the day but have a highly reflective surface. For example, a shiny dark-colored object (car, buoy) may appear brighter than a light-colored object with a dull surface.

For these reasons, be careful when using colors and reflective properties to identify objects. Experience and familiarity with the device is necessary.

**Depth Perception** – Night vision does not present normal depth perception. Use extreme caution when moving with the monocular viewer.

**Fog and Rain** – The ITT Night Vision viewer is very responsive to reflected ambient light; therefore, the effect of fog or heavy rain is to reflect much more light toward the monocular viewer and may seriously degrade its performance. Fog or heavy rain can create a "white-out" effect.

 **CAUTION:** *The ITT Night Vision viewer does not present normal depth perception; objects may be closer than they appear.*

 **CAUTION:** *Night vision is less effective in fog or heavy rain. Performance is degraded under these conditions; therefore, the ITT Night Vision viewer is not intended as a navigational aid in fog or heavy rain.*

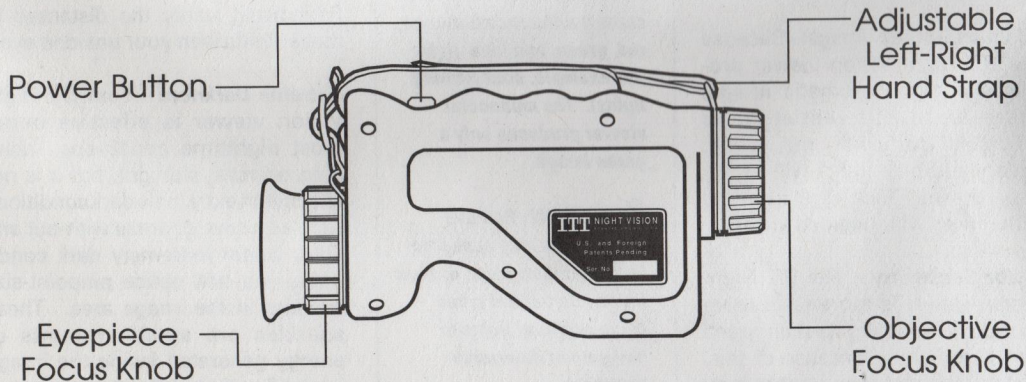
**Honeycomb** – This is a faint hexagonal pattern throughout the image area and is more noticeable under high-light conditions. Do not be concerned if you see this feature – it is an inherent characteristic of all high-amplification night vision systems that incorporate a microchannel plate in the image intensifier (see page 2).

**Image Intensifier Life** – The ITT Night Vision viewer was designed to be durable and rugged; however, the image intensifier used to amplify light does not have an unlimited life time.

The life of the image intensifier is dependent upon the amount of use. Under normal operating conditions, it will provide reliable performance for many years. If there is doubt about your monocular viewer's performance, contact your dealer or ITT for technical assistance (*see page 23*).

# CONTROLS AND FEATURES

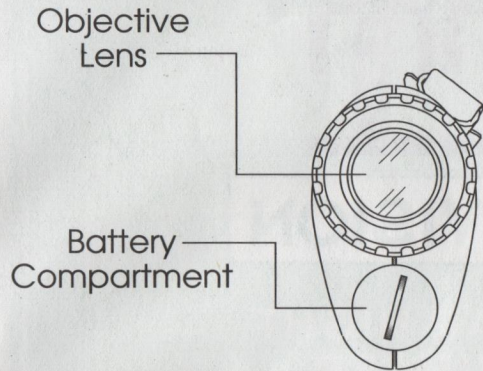
*Model 150/160*



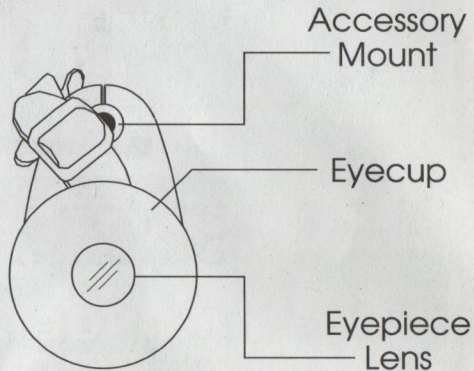


# CONTROLS AND FEATURES

## *Model 150/160*



FRONT



REAR  
(Back)

# CONTROLS AND FEATURES

## CONTROLS AND ADJUSTMENTS

Refer to the illustrations on pages 8 and 9 to identify the controls and adjustments.

**Power Button** – Turns on and shuts off power to the monocular viewer.

**Objective Focus** – Adjusts the objective (front) lens to achieve the sharpest image for varying distances. While looking through the viewer, turn the objective focus knob clockwise to focus for distances out to infinity. Turn the focus knob counterclockwise to focus for closer distances to about 1 foot.

**⚠ CAUTION:** *Be sure to turn off your monocular viewer when you are not using it.*

**NOTE:** *The sharpest image is seen when the objective and eyepiece lenses are properly focused.*

*These adjustments are independent and must be made separately.*

**Eyepiece Focus** – Adjusts the eyepiece lens to accommodate for differences in eyesight. The monocular viewer is designed to eliminate the need for most users to wear eyeglasses in order to see a clear image in the eyepiece.

**Battery Compartment Cover (150/160)**  
Provides access for installing and replacing the batteries. The compartment cover can be loosened by using a coin and turning the cover counter clockwise.

**Battery Compartment Cover (100)**  
The battery cover on the 100 series can be easily removed by depressing the tab and gently lifting it outwards.

## FEATURES

**Automatic Shutoff** – The ITT Night Vision viewer will automatically shut off after approximately 5 minutes. This feature preserves the battery and helps protect the image intensifier. If you want the system back on, simply press the POWER button again.


**Low-Battery Indicator (models 150/160 only)** – A steady red warning light in the eyepiece notifies you that battery voltage is low. Change the batteries as soon as possible.

**Automatic Brightness Control** – This feature provides a constant brightness of the image under varying light levels. The output never gets so bright it will hurt your eyes. Under high-light conditions, a built-in circuit protects the image intensifier.

**Weather-Resistant- (models 150/160 only)** – Your ITT Night Vision viewer is weather-resistant up to and including driving rain. If it is accidentally dropped into water, it will float so you can retrieve it.

**Lens Covers – (models 150/160 only)**  
To protect the optics, your monocular viewer includes covers for the objective and eyepiece lenses. Remove the covers before using the monocular viewer. Due to a pinhole in the objective cover, it can also be used to operate the monocular viewer under daylight conditions to focus the eyepiece or familiarize yourself with the system's operation. However, when the objective cover is used for daylight operation, the objective focus knob will not appear

to work. This cover operates much like a "pin-hole" camera.

 **CAUTION:** *The ITT Night Vision viewer is neither designed nor intended for under-water use. Do not intentionally submerge it.*

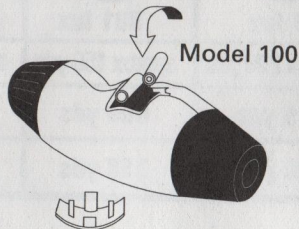
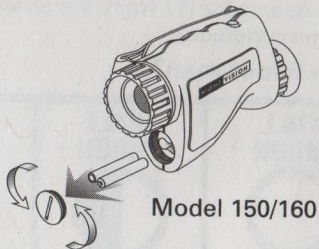
# CONTROLS AND FEATURES

## BATTERY INSTALLATION

**(150/160)** Insert the edge of a coin into the slot in the battery cover and turn it counter-clockwise to remove the cover.

When installing AAA batteries, make sure the polarity is correct. Notice the "+" and "-" marks inside the recess of the battery compartment. To replace the cover, simply thread it in clockwise and tighten it with a coin. Do not overtighten it.

**(100)** The battery cover on the 100 series can be easily removed by depressing the tab & gently lifting outwards. When installing N size batteries, make sure the polarity is correct. To replace the cover, simply insert tab into the recess of the body and gently push closed.



**⚠ CAUTION:** Do not disassemble, puncture, short circuit, recharge, or expose the batteries to fire or high temperature – they can explode or cause burns. Do not carry batteries in pockets or bags containing coins or keys; you can short circuit the batteries.



# OPERATION

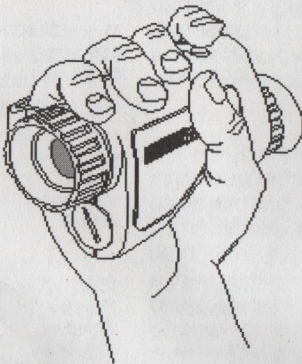
## ADJUSTING THE HAND STRAP

*(models 150/160)*

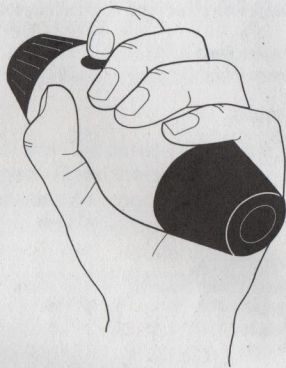
Pull back the hook-and-pile fastener and loosen the strap all the way. Rotate the strap to the left or right side of the viewer for either left- or right-hand operation. Slide your hand under the strap and grasp the viewer. Tighten the strap and press the hook-and-pile fastener into place. This hand strap helps you operate the monocular viewer securely.

## HOLDING THE MONOCULAR VIEWER

Place your hand under the viewer and position your index finger over the power button. The monocular viewer is just as easy to operate with the left hand as it is the right hand.



**Model 150/160**



**Model 100**

## **TURNING THE ITT NIGHT VISION VIEWER ON AND OFF**

To turn on your monocular viewer, press the POWER button and look for a green glow in the eyepiece (there may be a brief delay of a second or so). To turn off the system, press the POWER button again and notice that the green glow goes out.

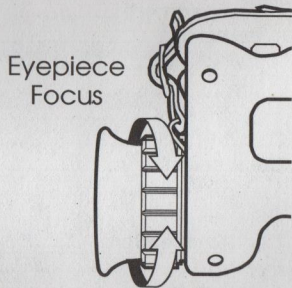
## **FOCUSING THE EYEPIECE**

Because the eyepiece will focus for differences in eyesight, you may want to remove your eyeglasses if you wear them.

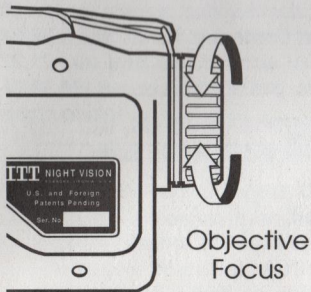
To focus the eyepiece, first turn the OBJECTIVE FOCUS KNOB for infinity.

Then, while looking at a distant object, turn the EYEPIECE FOCUS KNOB until you get the sharpest image. You may want to close your other eye when focusing.

Once the eyepiece is focused, you do not need to refocus it for differences in distance. The objective lens will adjust for differences in distance allowing convenient operation.



# OPERATION



## FOCUSING FOR DISTANCE

Turning the OBJECTIVE FOCUS KNOB clockwise will move the objective lens to focus on objects further away out to infinity. Turning the objective knob counterclockwise will bring objects that are closer toward you into focus – up to about 1 foot. For use beyond 30 feet, leaving the objective lens set for infinity will still provide you with a sharp image.

***NOTE: The sharpest image will be seen only when the objective lens and eyepiece are properly focused. The objective focus knob focuses on objects at varying distances and the eyepiece focus knob focuses to your individual eyesight (without eyeglasses). These adjustments operate independently and must be made separately.***

## LOW-BATTERY INDICATOR (*models 150/160 only*)

When the battery voltage drops to 2.3 volts, a steady red warning light in the left eyepiece will notify you to change the batteries.

The amount of time left on the batteries will vary depending on the temperature. At colder temperatures, battery life decreases. For example, at temperatures of freezing or below, battery life decreases about 25 percent. When the low-battery indicator comes on, change the batteries as soon as possible.

## CAUTION:

*(models 150/160 only)*  
**When the low-battery indicator light comes on, change the batteries as soon as possible to preclude the monocular viewer from shutting down when the batteries get too low.**

## USING THE ITT NIGHT VISION VIEWER

**Scanning** – The model 150/160 series viewer provides a 40° field of view, while the 100 series viewer provides a 52° field of view, both of which are substantially less than the normal peripheral vision of 190°. Therefore, you will need to use a scanning technique to maintain awareness of your surroundings. Becoming accustomed to this technique requires practice.

**Bright Lights** – Very bright lights in the field of view may engage the bright-source protection circuit and cause the image brightness to decrease.



If possible, briefly look away from the bright source to return your viewer to normal operation.

Also, a bright point of light in the image area may cause a slight halo to appear around the object that can obscure nearby features and the horizon.

**Dark Adaptation** – When you use the ITT Night Vision viewer, your eye will adjust to the light output of the eyepiece. Therefore, after using the monocular viewer, allow a sufficient period of time for your eye to readjust to the dark. Your other eye will not be affected.

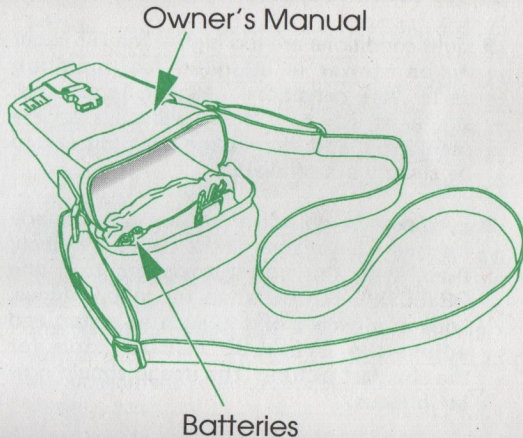
***NOTE: In order to use your viewer most effectively and understand the unique characteristics of night vision technology, make sure you and all users of your monocular viewer have read this manual. Pay particular attention to the sections entitled "Operation" and "Characteristics and Limitations of Night Vision."***

# OPERATION

## CARING FOR YOUR MONOCULAR VIEWER (models 150/160 ONLY)

**Carrying Case** – Your carrying case is designed to store and protect your monocular viewer. In addition, it provides a convenient place to keep your Owner's Manual and spare batteries. Whenever you are finished using the viewer, store it in the carrying case. Keep the carrying case free of sand or dirt to prevent damage to the optics. If necessary, the carrying case may be washed with warm water and mild detergent. Do not store your viewer in a wet carrying case; allow the carrying case to dry as soon as possible.

(150-160 ONLY)



**Lens Covers – (150/160 only)** Objective and eyepiece lens covers slip over the optics to protect them from damage. The objective cover is tethered to the unit. The eyepiece cover has a tab with a hole in it to allow you to tether it as well.

**Optics** – If the optics get wet, dry them with lens tissue or an absorbent lint-free cloth. If the optics are dirty or salt water has crystallized on them, clean the optics with fresh water and then dry them (do not use chemical cleaners). Avoid touching the optics with your fingers and be careful not to rub grit or salt crystals around on the optics or you may scratch them. Keep the lens covers on whenever you are not using your model 150 or 160 viewer.

**Batteries/Battery Compartment** – Remove the batteries from the unit if you will not be using it for a couple of weeks or more. Make sure the battery compartment is clean and free of moisture or corrosion.

Check the O-ring on the battery compartment cover to make sure it is not nicked, deteriorated, or excessively worn. If it needs to be replaced, use your fingers or a blunt instrument to remove the old O-ring. Carefully pull a new O-ring into place. *(See page 24 to obtain a new O-ring.)*

**Moisture** – The viewer is weather-resistant and designed to withstand exposure to water that is characteristic of marine environments. However, do not intentionally submerge the system or put it away wet. Dry it off with a clean, grit-free cloth and return it to the carrying case. Models 150 and 160 float.

**Salt Water** – If your viewer is exposed to salt water, wipe it off with a clean cloth dampened with fresh water and dry it. Take special care of the optics as noted on page 19.

If the carrying case should get wet with salt water, remove any items from the inside and rinse the case with fresh water. Allow it to dry before storing anything in it again.

**Sunlight** – Do not leave your viewer in direct sunlight such as the dash or seat of an automobile or boat.

**Rubber Components** – The eyecup and power button are made of hypo-allergenic silicone rubber. Clean these parts with a soft cloth dampened with fresh water. If the eyecup or power button is torn or damaged, contact your dealer or ITT's Technical Support Center for assistance (*see page 23*).



# CARE AND MAINTENANCE

## TROUBLESHOOTING

If your monocular viewer should fail to operate properly, perform the following checks before contacting your dealer or ITT for assistance. *Do not attempt to open the viewer's housing – it is sealed during manufacture and cannot be opened without damage.*

### ***Unit will not come on***

- POWER button is not properly depressed – Push the POWER button firmly and completely and briefly hold it in the depressed position. When the button is properly depressed, you should be able to feel the switch engage as well as hear a faint audible click. If the switch is working and the unit still does not come on, check the batteries as described below.

- Batteries installed incorrectly – Remove the batteries and reinstall them with the correct polarity. Note the polarity marks in the recess of the battery compartment.
- Battery contacts are inoperative or the battery is discharged – Open the battery compartment and inspect the contacts. If the contacts are corroded, thoroughly clean them with a cotton swab moistened with a mild solution of baking soda and water. Using clean water, clean off any residue of baking soda and allow the battery compartment to dry before reinstalling the batteries. If the battery contacts are clean and the unit still does not come on, replace the batteries with fresh ones.

### ***Image does not appear to be focused***

- Light conditions are too high – The ITT Night Vision viewer is intended for operation under dark conditions. Higher light levels, similar to dawn or dusk, will degrade the resolution and the image will appear to be slightly out of focus.
- Eyepieces or objective lens are not properly focused – Make sure all the optics are clean; then, with the unit turned on, turn the OBJECTIVE FOCUS knob for infinity focus. Look at a distant object, such as a star, and adjust the EYEPIECE FOCUS knob for the sharpest picture. The image should now be in focus.

### ***Unit operates erratically***

- The batteries are weak – Replace the batteries with fresh ones.

### ***Moisture in the battery compartment***

- The battery compartment O-ring is defective – Replace the O-ring as described on page 19.

If your monocular viewer will not function properly after following the troubleshooting procedures, contact your dealer or ITT's Technical Support Center.

## RETURNING YOUR MONOCULAR VIEWER FOR REPAIR

1. Locate the serial number of your ITT Night Vision viewer and write it down. The serial number is on the label on the side of the viewer and will help us to quickly determine if any needed repairs are under warranty.
2. Call your dealer or ITT's Technical Support Center at: **1-800-448-8678**

The Technical Support Center will try to evaluate the defect over the telephone. If the problem cannot be resolved, you will be given a Return Material Authorization (RMA) number and asked to ship your monocular viewer to our facility. ***Please do not return any equipment to us without first obtaining an RMA number.***

If your unit is not under warranty, you may request an estimated cost for repairs, which will be furnished to you by telephone shortly after we receive your monocular viewer.

3. If you return your monocular viewer to ITT for repair, please return the unit and accessories as complete as possible.
4. Complete the RMA tag contained in your original Return Documentation Package. If you do not have an RMA tag, use a standard luggage tag and record the following information on it:

Name

Address

Telephone number

RMA number

Brief description of the problem

5. Attach the RMA or luggage tag to the viewer.
6. Pack the monocular viewer securely and make sure it is well padded. If you kept the original carton, it is ideal for packing and returning the unit.
7. Include the RMA number on the shipping label and send the unit, insurance and postage prepaid, to:

**Technical Support Center (RMA #\_\_\_\_\_)**  
**ITT Night Vision**  
**7671 Enon Drive**  
**Roanoke, VA 24019**

8. If your unit is out of warranty and you request an estimate of repair costs, we will telephone you with this information and obtain your approval before we proceed. After repairs are made, your ITT Night Vision viewer will be returned freight and insurance prepaid.

## REPLACEMENT PARTS

You may obtain the following replacement parts from ITT's Technical Support Center.

Model #	Description	Part Number
150/160	Hand Strap -	266207
150/160	Carrying Case -	266244
100/150/160	Battery Compartment Cover -	266227
100/150/160	Battery Compartment O-ring -	266630
150/160	Eyepiece Lens Cover -	266236
150/160	Objective Lens Cover -	266235



# SPECIFICATIONS

## SYSTEM

Image Intensifier Type  
System Resolution  
Image Intensifier Gain

**100**

Proximity-focused,  
18-mm, Gen 2  
0.76 cy/mr  
30,000 min

**150**

18-mm, Gen 3  
0.76 cy/mr  
30,000 min

**160**

18-mm, Gen 3  
0.96 cy/mr  
50,000 min

## OPTICAL

Magnification  
Field of View  
Objective Lens  
Focus Range  
Diopter Range

.8X  
52°  
F/1.4  
1 foot to inf.  
+2 to -6

1X  
40°  
F/1.4  
1 foot to inf.1  
+4 to -5

1X  
40°  
F/1.4  
1 foot to inf.  
+4 to -5

## MECHANICAL

Weight (with battery)  
Length  
Height  
Width

10 oz. max  
6<sup>3</sup>/<sub>4</sub> inches  
2<sup>1</sup>/<sub>2</sub> inches  
2<sup>1</sup>/<sub>4</sub> inches

16 oz.  
7<sup>1</sup>/<sub>4</sub> inches  
3<sup>5</sup>/<sub>8</sub> inches  
2<sup>1</sup>/<sub>8</sub> inches

16 oz.  
7<sup>1</sup>/<sub>4</sub> inches  
3<sup>5</sup>/<sub>8</sub> inches  
2<sup>1</sup>/<sub>8</sub> inches

## ELECTRICAL

### 150-160 Series

Voltage Requirement  
Battery  
Battery Life

3 volts  
AAA alkaline batteries  
Approx. 30 hours at  
room temperature  
(The temperature will  
affect battery life.)

### 100 Series

Voltage Requirement  
Battery  
Battery Life

3 volts  
N size alkaline batteries  
Approx. 30 hours at  
room temperature  
(The temperature will  
affect battery life.)

Specifications are subject to change without notice.

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